

29. The method of claim 28, wherein said catalyst is biologically amplifiable.

30. The method of claim 28, wherein said unit is biologically amplifiable and said catalyst and said at least one substrate attached to said catalyst are attached on the surface of said biologically amplifiable unit.

31. The method of claim 28, wherein said catalyst is attached to said at least one substrate by a flexible linker.

32. The method of claim 28, wherein said catalyst is attached to said at least one substrate by a carrier system.

33. The method of claim 28, wherein said catalyst is attached to said at least one substrate by a flexible linker and a carrier system.

34. The method of claim 32, wherein said carrier system is a bead particle.

35. The method of claim 28, wherein said library of catalysts is a library of peptides or polypeptides.

36. The method of claim 35, wherein said library of peptide or polypeptides is a library of enzymes.

37. The method of claim 36, wherein said library of peptides or polypeptides is a library comprising recombinant peptides or polypeptides.

38. The method of claim 36, wherein said library of peptides or polypeptides comprises shuffled peptides or polypeptides.

39. The method of claim 36, wherein said library of peptides or polypeptides comprises doped polypeptides.

40. The method of claim 28, wherein said library of catalysts is a library of nucleic acids.

41. The method of claim 40, wherein said library of nucleic acids comprises recombined nucleic acids.

42. The method of claim 40, wherein said library of nucleic acids comprises shuffled nucleic acids.

43. The method of claim 40, wherein said library of nucleic acids comprises doped nucleic acids.

44. The method of claim 28, wherein said library of catalysts is a library of small organic molecules.

45. The method of claim 44, wherein said library of small organic molecules was made by combinatorial chemistry.

46. The method of claim 28, wherein said library of catalysts is a library of small inorganic molecules.

47. The method of claim 46, wherein said library of small inorganic molecules was made by combinatorial chemistry.

48. The method of claim 28, wherein the catalyst and the at least one substrate are different chemical substances.

49. The method of claim 28, wherein said catalytic library of interest is a library of peptides or polypeptides, and said method entails prior to said a), enriching said library of peptides or polypeptides to obtain a library of full-length proteins.

50. The method of claim 29, wherein said selecting step is performed by immobilizing said product molecule.

51. The method of claim 29, wherein said selecting step is performed by immobilizing said product molecule to an affinity column.